

# SAE106

LINEAR PENDANT INDIRECT/DIRECT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## FEATURES

- Up to 133 lumens/watt efficacy
- Output range from 800 to 1875 lumens/ft
- SpectraSync™ Color Tuning Technology
- Five downlight distributions available
- 3 SDCM color variation
- 103 degree peak angle



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Housing - 20 gauge formed steel
- Lens - extruded acrylic
- End caps - 5/16" Die-cast flat aluminum
- 5" Shelf style end caps available (ECSS)
- 80/20 indirect/direct distribution with downlight tray
- 60/40, 40/60, 20/80 and 0/100 distributions provided with downlight tray
- When selected uplight is low peak angle (LPA) by default
- Dust Cover - optional, clear acrylic

### OPTICAL PERFORMANCE

- 3 SDCM color consistency
- Softglow (SOF) acrylic lens (shipped installed)

### INSTALLATION

- Pendant locations at ends of rows (or individual fixtures) are 3/8" from fixture ends
- Pendant attachment allows for horizontal adjustment to "finetune" side-to-side leveling
- 1/16" diameter field-adjustable aircraft cables
- Suspension required at every row joint
- Suspension kits ship separately
- All fixture mounting hardware prepackaged and kitted per row

### INSTALLATION (CONTINUED)

- Hardware kits ship separately
- Row Joining - 10-32 machine screws and nuts (provided) are accessible without removal of any components

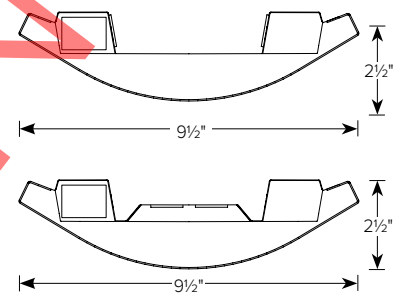
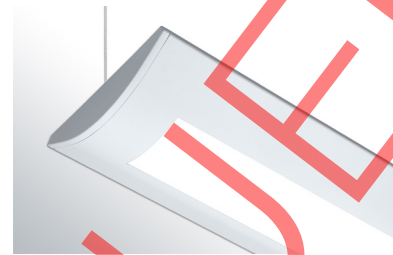
### ELECTRICAL

- 1C (1 Circuit) Uplight and downlight switched/dimmed together
- 2C (2 Circuit) Uplight and downlight switched/dimmed separately
- LED boards and drivers can be accessed, removed, and replaced from installed fixture. Contact factory.
- Feed Cord - 3-wire, 7 amps max; 4-wire, 7 amps max; 5-wire, 5 amps max
- Canopy Covers - Non-feed: 2" diameter (unless 5" non-feed is specified). Feed: 5" diameter

### CONTROLS

- Optional SpectraSync™ offers two modes of Tunable White solutions and integrates seamlessly into a variety of control systems
- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- NX Lighting Controls are available in U.S., Canada and Mexico. For other locations consult factory

SAE



Cross-Sections

	Weight
106-P-ID	3 lbs/ft

### CERTIFICATIONS

- CSA listed for damp locations
- This product meets federal procurement law requirements under the Buy American Act (FAR 52.225-9) and Trade Agreements Act (FAR 52.225-11). See [Buy America\(n\) Solutions](#).
- Emergency Battery Backup options are California Energy Commission (CEC) Title 20 Compliant.

### WARRANTY

- LED boards - 5 years
- LED drivers (standard)- 5 years

KEY DATA	
Lumen Range Per Foot	800 - 1875
Wattage Range Per Foot	6.75 - 16
Efficacy Range (LPW)	114 - 119
Rated Life (Hours)	L70: >60,000 L90: up to 55,000

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## ORDERING GUIDE

Example: SAE106-P-LPA-2-4-SOF-C1-30K-080-2D-D01-1C-UNV-FA1

CATALOG #

SAE		106	P	LPA			SOF	
Program		Series	Mounting	Uplight Distribution	Row Length (In Feet)	Max Length in Row	Downlight Diffuser	Finish/Color <sup>3</sup>
SAE	SAE Program	106 106	P Pendant	LPA Low Peak Angle <sup>2</sup>	—' Enter in foot increments	4 4', 1219mm 8 8', 2438mm	SOF Soft Diffuse Lens	C1 Matte White (Default) C2 Textured Matte White C3 Light Silver C4 Machined Aluminum C5 Carbon Black C6 Textured Camera Black CC Custom Color

Color temperature		Output/ft <sup>5</sup>	Distributions <sup>6</sup>	Driver	Circuiting	Voltage	Suspension Kit <sup>10</sup>
30K	3000K	080 800	2D 80% Up, 20% Down	D01 1% Dimming, 0-10V	1C 1 Circuit	UNV Universal Voltage (120V through 277V)	FA1 Suspension Kit, 51"
35K	3500K	105 1050	4D 60% Up, 40% Down	D05 5% Dimming, 0-10V <sup>7</sup>	2C 2 Circuit - Uplight/ Downlight <sup>8</sup>	347 347 Volt <sup>1,9</sup>	FA2 Suspension Kit, 87"
40K	4000K	130 1300	6D 40% Up, 60% Down	NDM Non-Dimming			FA3 Suspension Kit, 219"
2750T	2700K - 5000K SpectraSync™ Tunable White <sup>4</sup>	155 1550	8D 20% Up, 80% Down				FA4 Suspension Kit, 363"
2765T	2700K - 6500K SpectraSync™ Tunable White <sup>4</sup>	187 1875	10D 0% Up, 100% Down				

## OPTIONAL

Nightlight	Emergency	Patterns	Thru-wiring	Dust Cover	End Cap-shelf Style	T-Bar Clips <sup>14</sup>
NL Nightlight Circuit Required <sup>11</sup>	EF 10W Emergency Battery Pack (CEC Title 20 Compliant) <sup>12</sup>	PTRN Contact Factory for pattern configurations. Approval drawings required.	W2 Provide Normal and Emergency/ Nightlight Thru Wiring <sup>13</sup> W3 Provide Normal Thru Wiring Only	L1 Clear Acrylic Dust Cover Lens	ECSS End Cap, Shelf Style, 5"	CB1 T-bar clip - 15/16" CB2 T-bar clip - 9/16" CB3 T-bar clip - 9/16" SS

## Control Options

## NX Networked – Wired

NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor <sup>15</sup>
NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming <sup>15</sup>

## NX Networked – Wireless

NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming <sup>15</sup>
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor <sup>15</sup>

## Sensors

SD1	Daylight Sensor Required
SO4	Occupancy Sensor Required

## Notes:

- 1 Additional lead time may be applicable. Contact factory.
- 2 Not applicable for 10D distribution.
- 3 Visit [currentlighting.com/litecontrol](http://currentlighting.com/litecontrol) for details.
- 4 Must be ordered with D05 Driver option.
- 5 Choose one output.
- 6 Percentage above output.
- 7 Must be ordered with 2750T or 2765T options
- 8 Not available with 2D or 10D distribution
- 9 Excludes Emergency Battery Option
- 10 Add suffix *N* to replace all 2" non-feed canopy covers with 5" canopy covers. FA1/*N* = 51" suspension kit w/5" canopies; Canopies and feed cord are supplied in white regardless of fixture color unless otherwise specified. For dual feed contact factory.
- 11 Enter quantity. 2NL = 2 nightlight circuits/row
- 12 Enter quantity. 2EF = 2 Emergency batteries/row. Provides a minimum of 90 minutes of emergency lighting. Inverter-Compatible. Provided by others.
- 13 Only applicable when specified with emergency.
- 14 To be ordered with Luminaire Canopy Box.

## NX In-Fixture Control Options:

- 15 Refer to NX Integrated Controls Reference Table for Functionality of Options

**CONTROLS OPTIONS AND FUNCTIONALITY**

Control Option Ordering Logic & Description		Control Option Functionality										Control Option Components	
		Sensor	Networkable	Grouping	Scheduling	Occupancy/Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth® App Programming	Sensor Height		
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS, without Sensor	N/A	✓	✓	✓	-	-	✓	✓	Requires NXBTC dongle <sup>1</sup>	-	NXDSP
	NXERM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓	✓	Max: 12'	NXSMP2-LMI NXDSP
NX Wireless	NXWRM	NX Networked Wireless Enabled Integral NXSMP2-LMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	NXSMP2-LMI	✓	✓	✓	✓	✓	✓	✓	✓	Max: 12'	NXSMP2-LMI
	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth® Programming, without Sensor	N/A	✓	✓	✓	-	-	✓	✓	✓	-	NXRM2-H

<sup>1</sup> NXBTC needs to be plugged into an available NX SmartPort™ on the fixture network

**CONTROLS TECHNICAL SUPPORT**

1-800-888-8006 (7:00 am–7:00 pm est)

**APP INFORMATION**

**NX Lighting Controls App**



The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.



Android



Apple iOS

**NX Connect App**



The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.



Apple iOS

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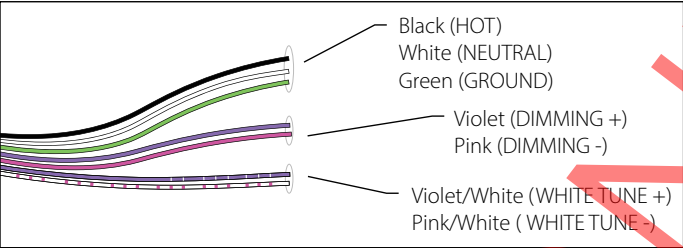
CONTROLS OPTIONS AND FUNCTIONALITY (CONTINUED)

SpectraSync™ Color Tuning Technology:
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



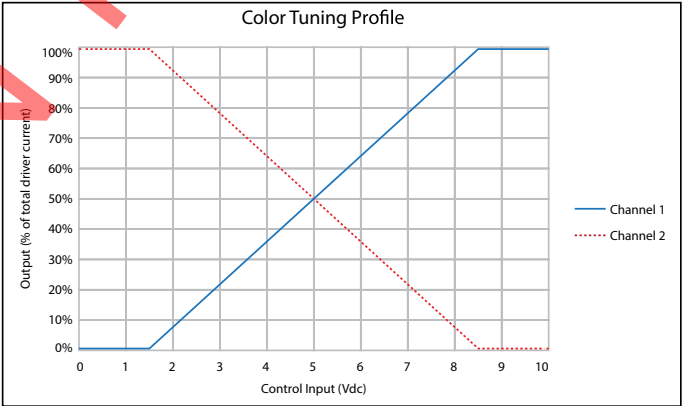
Table with 3 columns: Mode, Kelvin Range, Description. Rows include Tunable White and Scheduled White.

SpectraSync Tunable White
Available in two options: 2750T (2700K–5000K) or 2765T (2700K–6500K).
Requires two 0–10V controllers, one for intensity and one for CCT.
Minimum 5% dimming.



SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and pink/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

- Controller Manufacturer Data
SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:
- Current: NX Lighting Controls Room Controllers (NXRCFX2) and In-fixture Controllers (NXFM2)
  - Lutron: DDTV, DVSTV, and NDTV dimmers
  - Wattstopper: ADF120277 and CD4BL (Titan) dimmers



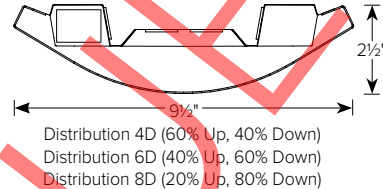
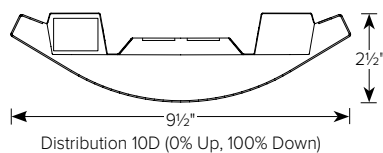
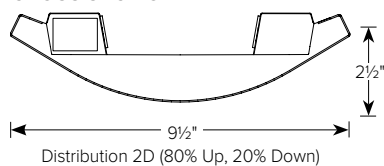


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## DIMENSIONS CONTINUED

### CROSS SECTION



## PHOTOMETRY

### SAE106-P-LPA-4-SOF-30K-130-2D

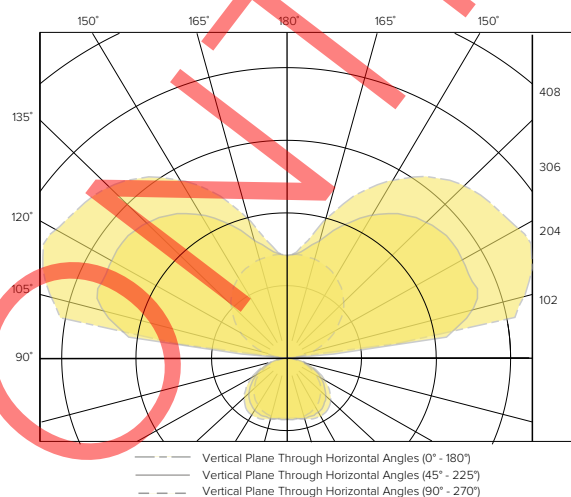
#### LUMINAIRE DATA

Test No.	16.02760
Description	9.5 X 48, LED CURV WITH LINEAR FROSTED OPAL LENS
Delivered Lumens	5334
Watts	42W
Efficacy	127
Mounting	Pendant

#### ZONAL LUMEN SUMMARY

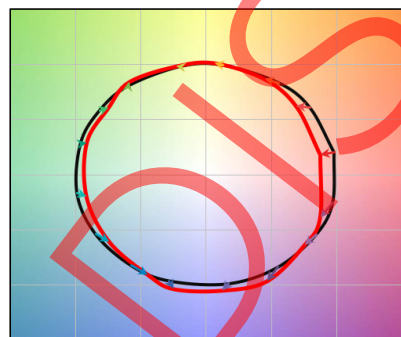
Zone	Lumens	% Luminaire
0-40	424	7.9
0-60	805	15.1
0-90	1086	20.4
0-180	5334	100.0

#### POLAR GRAPH

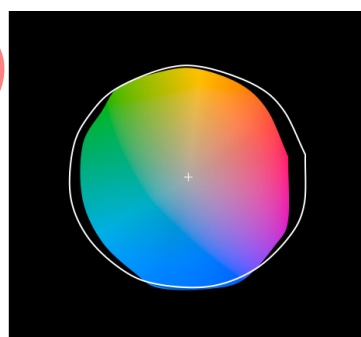


## TM-30 DATA

### COLOR VECTOR GRAPHIC



### COLOR DISTORTION GRAPHIC



TEST RESULTS	
Value	35K
CCT (K)	3447
CIE R <sub>a</sub>	83
D <sub>uv</sub>	-0.0003
R <sub>t</sub>	82
R <sub>g</sub>	97
x	0.408
y	0.3914

\*Graphics shown are at 35K

— Reference Illuminant — Test Source

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## ADDITIONAL INFORMATION

### Sensor

SD1	Daylight sensor. Installs between light guide panels.
SO4	Occupancy sensor. Installs between light guide panels.
NX	NX sensors installs between light guide panels.

See separate LC-Controls spec sheet for additional details.

### Driver:

D01	100%- 1% dimming range. Fixture will be wired for low voltage 0-10V dimming control.
D05	100%-5% dimming range. Fixture will be wired for low voltage 0-10V dimming control. Only applicable if either 2230TD, 2750T or 2765T is selected.
NDM	Non-dimming. Fixture will be wired for fixed light output.

### Fixture Weight:

3 lbs/ft

### Rated Life:

Tested in accordance with the LM79-2008 and derived from EPA TM-21 calculator

L70: 257,000 (calculated per TM-21 extrapolated curve)

L70: >60,000 (reported per TM-21/LM80 6x's limitation)

L90: 55,000 (calculated per TM-21 extrapolated curve)